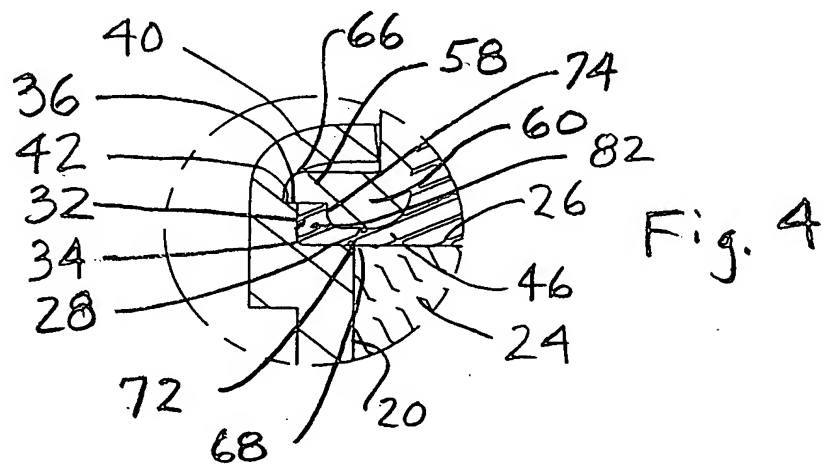
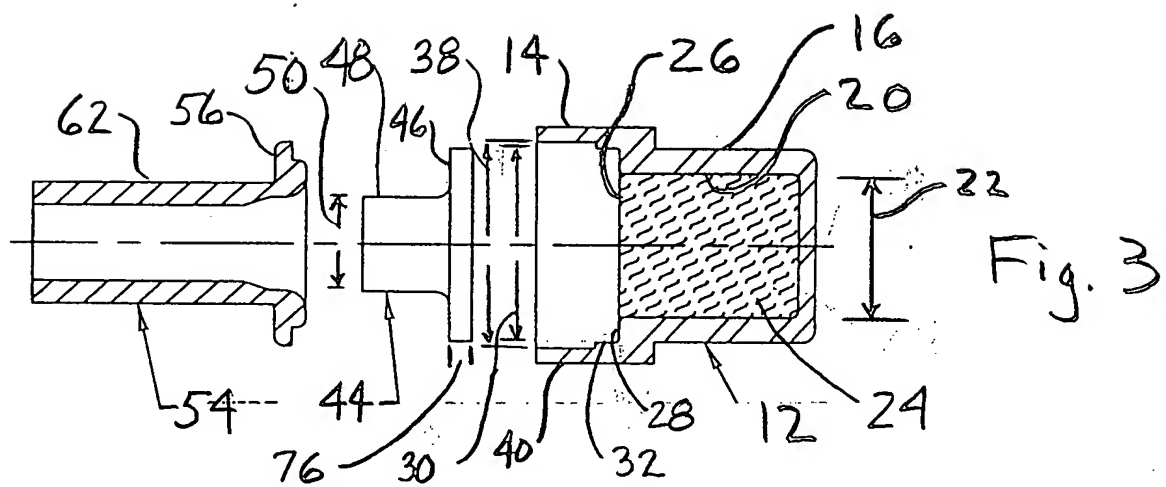


Fig. 1

Fig. 2



		TEST 1											
LOAD	MOTION @ 180F	MOTION @ 200F	PISTON LENGTH	WAX WEIGHT	OVER ALL PART WEIGHT	PRE-TEST LENGTH	POST TEST LENGTH						
20 lbs	0:225	0:195	0:500	0:159	5274	0:774	0:774						
30 lbs	0:217	0:268	0:500	0:159	5274	0:774	0:774						
40 lbs	0:212	0:241	0:500	0:159	5274	0:774	0:774						
50 lbs	0:205	0:223	0:500	0:159	5274	0:774	0:774						
60 lbs	0:201	0:215	0:500	0:159	5274	0:774	0:774						
70 lbs	0:187	0:196	0:500	0:159	5274	0:774	0:774						
80 lbs	0:183	0:191	0:500	0:159	5274	0:774	0:774						
90 lbs			0:500	0:159	5274	0:774	0:774						
100 lbs			0:500	0:159									

LOAD	# of Times
20 lbs	1721.07
30 lbs	2581.6
40 lbs	3442.15
50 lbs	4302.69
60 lbs	5163.23
70 lbs	6023.77
80 lbs	6888.31
90 lbs	0
100 lbs	0

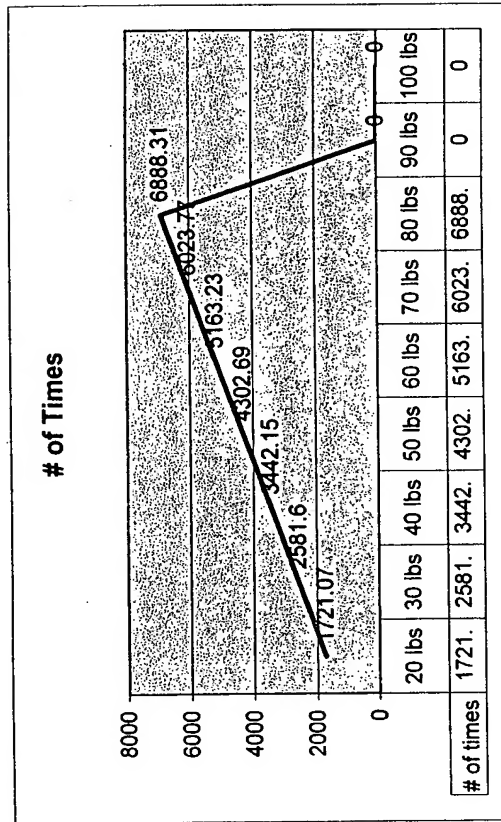


Table 1

TEST 2		WAX WEIGHT		OVER ALL PART WEIGHT		PRE-TEST LENGTH		POST TEST LENGTH	
LOAD	MOTION @ 145F	MOTION @ 160F	PISTON LENGTH	WAX WEIGHT	OVER ALL PART WEIGHT	PRE-TEST LENGTH	POST TEST LENGTH	WAX WEIGHT	OVER ALL PART WEIGHT
20 lbs	0:153	0:201	0:500	0:143	5:281	0:774	0:774	0:143	5:281
30 lbs	0:144	0:205	0:500	0:144	5:281	0:774	0:774	0:144	5:281
40 lbs	0:142	0:195	0:500	0:144	5:281	0:774	0:774	0:144	5:281
50 lbs	0:136	0:141	0:500	0:144	5:281	0:774	0:774	0:144	5:281
60 lbs	0:134	0:138	0:500	0:144	5:281	0:774	0:774	0:144	5:281
70 lbs	0:127	0:131	0:500	0:144	5:281	0:774	0:774	0:144	5:281
80 lbs	0:122	0:125	0:500	0:144	5:281	0:774	0:774	0:144	5:281
90 lbs	0:117	0:119	0:500	0:144	5:281	0:774	0:774	0:144	5:281
100 lbs	0:112	0:113	0:500	0:144	5:281	0:774	0:774	0:144	5:281

LOAD	# of Times
20 lbs	1725
30 lbs	2587.5
40 lbs	3450
50 lbs	4312.5
60 lbs	5175
70 lbs	6037.5
80 lbs	6900
90 lbs	7762.5
100 lbs	8625

Times Lifted of Actuator's Weight

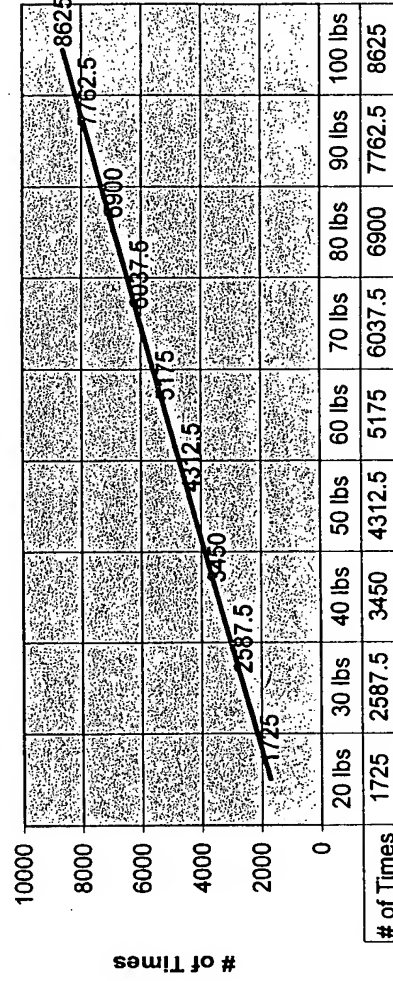


Table 2

TEST 3			BATCH 58640				
LOAD	MOTION @ 150F	MOTION @ 250F	PISTON LENGTH	WAX WEIGHT	OVER ALL PART WEIGHT	PRE-TEST LENGTH	POST-TEST LENGTH
20 lbs	0:248	0:362	0.610	0.141	5.270	0.770	0.770
30 lbs	0:234	0:346	0.610	0.141	5.270	0.770	0.770
40 lbs	0:226	0:337	0.610	0.141	5.270	0.770	0.770
50 lbs	0:223	0:326	0.610	0.141	5.270	0.770	0.770
60 lbs	0:218	0:308	0.610	0.141	5.270	0.770	0.770
70 lbs	0:210	0:289	0.610	0.141	5.270	0.770	0.770
80 lbs	0:201	0:000	0.610	0.141	5.270	0.770	0.770
90 lbs	0:000	0:000	0.610	0.141	5.270	0.770	0.770
100 lbs	0:000	0:000	0.610	0.141	5.270	0.770	0.770

LOAD	# of Times
20 lbs	1721.4
30 lbs	2588.1
40 lbs	3442.8
50 lbs	4303.51
60 lbs	5164.21
70 lbs	6024.91
80 lbs	6885.61
90 lbs	0
100 lbs	0

Times Lifted of Actuator's Weight

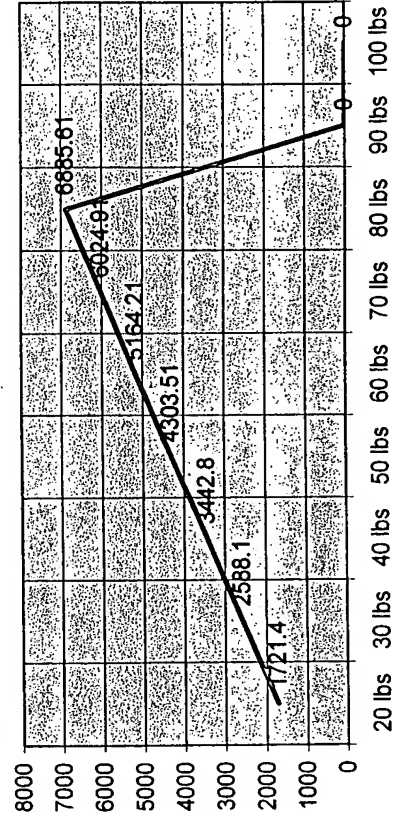


Table 3